# STIC Biotechnology Systems Branch

# RAW SEQUENCE LISTING
## ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/569,330_

Source: _IFWP,_

Date Processed by STIC: _12/29/06_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE __CHECKER VERSION 4.4.0 PROGRAM__, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
**http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, **EFS Submission User Manual** - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

# Raw Sequence Listing Error Summary

**ERROR DETECTED**      **SUGGESTED CORRECTION**      SERIAL NUMBER: _10/569,330_

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

1 ___ Wrapped Nucleics
Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 ___ Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ___ Misaligned Amino
Numbering     The numbering under each $5^{th}$ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 ___ Non-ASCII     The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 ___ Variable Length     Sequence(s)___contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ___ PatentIn 2.0
"bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7 ___ Skipped Sequences
(OLD RULES)     Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)       SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 ___ Skipped Sequences
(NEW RULES)     Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 ___ Use of n's or Xaa's
(NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 ___ Invalid <213>
Response     Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

11 ___ Use of <220>     Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules .

12 ___ PatentIn 2.0
"bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 ___ Misuse of n/Xaa     "n" can only represent a single <u>nucleotide</u>; "Xaa" can only represent a single <u>amino acid</u>

AMC – STIC Systems Branch – 03/02/06
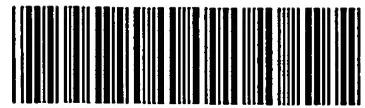
IFWP

**RAW SEQUENCE LISTING**          DATE: 12/29/2006
**PATENT APPLICATION:  US/10/569,330**       TIME: 15:38:03

Input Set : **A:\L7350.0006 SEQUENCE LISTING.TXT**
Output Set: **N:\CRF4\12292006\J569330.raw**

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 3 <110> APPLICANT: NAKAJIMA, Toshihiro
 4        AMANO, Tetsuya
 5        TSUCHIMOCHI, Kaneyuki
 6        YAMAZAKI, Satoshi
 7        YAGISHITA, Naoko
 9 <120> TITLE OF INVENTION: Synoviolin promoter
11 <130> FILE REFERENCE: L7350.0006
13 <140> CURRENT APPLICATION NUMBER: 10/569,330
14 <141> CURRENT FILING DATE: 2006-02-21
16 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/012424
17 <151> PRIOR FILING DATE: 2004-08-23
19 <150> PRIOR APPLICATION NUMBER: JP2003-297913
20 <151> PRIOR FILING DATE: 2003-08-21
22 <160> NUMBER OF SEQ ID NOS: 13
24 <170> SOFTWARE: PatentIn version 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 3046
28 <212> TYPE: DNA
29 <213> ORGANISM: Mus musculus
31 <400> SEQUENCE: 1
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34 gaactcactc tgtagaccag gctggcctcg aactcagaaa tccgcctgcc tctgcctccc  120
36 gagtgctggg attaaaggta ggcgccacca cgcccagctt tttttttttt agataggatc  180
38 tcactctata gctgtacgct ggcctcagat ttatgatgct cttcctgcct cagtctccca  240
40 attttctggg attgtaggag tgggccacta tgctctgctc actacatgat ttcagaggtt  300
42 gagtagacct gaactgaaga ccagacaagg gagccctccc tcgacatctt ggggccaggg  360
44 aagttgaagc cataggatca gaggaaatgt ggcaagaaaa aaggccaaca tggacacaga  420
46 acttaaataa aaacagacag aggaagtaag acagatatat acctggggga gaggagggat  480
48 tgccacaaaa tgtaggagat tttcaagaat gggggaggat gagtgtgtag ggttaaaggt  540
50 agccagtaga agttcatagc tagccttatg gaggaaggaa aggggagcca tctcgggatg  600
52 ttaactgtta aagacaacag gtggtggtga agatggctga gaccaagagc acagggctga  660
54 ggggcagaca ggcactgaca ctgctaccct ttaatacagt tcctcctgtt gtgatcccca  720
56 accataatta cttcgttgct acttcataac tgtaattttg ctagttatga attgtaagta  780
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60 ggcttacgac tcacaggttg agagccagcc actgccttaa agtcgtctag aatcagtttt  900
62 ctttcttttt tgacagacaa gatgtttaat tccgttgtac tgaaggaaag ccattttatg  960
64 tattttctt aagtgctcta tcagtaatga caattctgaa agccctgtg ttatatttta  1020
66 acaacacagt cacctccggt tctgtattca ctgtccgtgt tgtgactccc acagtataaa  1080
68 ttcctccagt tgatcttcat gaattcttat atttgatccc cccccccctt aggcctctga  1140
70 attccgagtg agtccgagtt aaaaatggga ggagcaccct ctagctgata aacctggta  1200
72 atgaggtgtc cgcttccagt ttccattctg tacgcgacta tactgcttgt gtgagcccta  1260
74 acagacagaa tcagctcaga acaaagggtc tggctatctc ccagggatga acacgcacgc  1320
76 cgactgagct tttgggggtgt tgaaaagtca acgccttcgc acagaactct ccaccccaac  1380
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*Does Not Comply*
*Corrected Diskette Needed*

*see pp 4–5*

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 78 ctagaaataa ctggcgttct gttttatgtc agtccggaca cgcaagcact gctccttttg   1440
 80 cgggccccgt aagcatcccc ccaggcggga tagggatccc cggcctatgg actgcgcttt   1500
 82 ctcagctggc atccagctgc cttggcaccc agtccggggc cactctgcct acagacccta   1560
 84 gcaaccactc acctgctttt cttccctat aggccagaaa tttttcattt cttttctcat    1620
 86 tggtccggcgt aactttatcg caaccaatcg gcggtacacg ggaacaaact cactcctaca  1680
 88 caacctgcgt tggggggagg taacctggga agacctatat ctgttttctg caccgctatt   1740
 90 tttttccgag aagcacttaa cttcttaccg tgtcgtagct atccctggaa tgaggcgctt   1800
 92 acacatttta tttctttcat gcctgacata aagtctggcc cttgctcgct cctgcccccc   1860
 94 gtccaaatgg ctcggcccgc ggaacgccca tcttccaggc acattgagag ccggagtctt   1920
 96 ggagggagtt tagggtggtg attctacaac ggcgactagc aagtggcggg cttcagccct   1980
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100 cgcagggggt ggggagtgtt gttaaccgga gcggctgccg cagtcgcggt gattgagcgt   2100
102 actccgccgc gccccgcgcc gccggaagtg aggtgtctta cccccgaagt tccggttcgc   2160
104 aggggggtggg gagtgttgtt aaccggagcg gctgccgcag tcgcggtgat tgagcgtgct   2220
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110 tttcggcctg tcagatggct ggagacctta ggcggcggcg cggccaccgt tccagaggcc   2400
112 gggccccgcc tgcgaggttc gcaactccta gcgttcacag gtgcgcgact gtgaggcgac   2460
114 ctgactggtt ctcagccccg ccgccgcacc ctggcggtcg gccgtttctc cggttctcag   2520
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118 cgcgcgtctg cgctgaccac cctggcacag ctgtcactgg ttgtgtcgcc ttctcaagct   2640
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124 tcagtgactc cctagaggag gcgccttggc agacagcgtg gaagagccct agatttgaaa   2820
126 cgagattgat ccaagttcta ggccttgcat cagtgtgagc ctctaacccc tttgagtcct   2880
128 agtttctcgt ttgtgaaaca gggagtatat gctgttttga atctaatggc tgtcaaggtg   2940
130 aaatgagtgt ttgcccttac actctgccag ggactgtgct aggtttacat agtgtggata   3000
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136 <211> LENGTH: 3092
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138 <213> ORGANISM: Homo sapiens
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143 tacccgatta tcctcgctga tactgcaacc agcttcaagt accccaccac atcctgatcc   120
145 cctttattct gttctacttt tttcctatag cactgatcat cttccagcgt attagatttt   180
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149 ctttattttg ttcactgaca tcctaagtcc ctagaacagg agacacttga tccatatttg   300
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153 gatgcccgtt ccggagctg gggtgcagac agtgtctagg dacactgaac tgttttaaaa   420
155 gcaggataga tcccggctgg agaccacaca aggaaatcat cagcacctgg gtcaggggct   480
157 ggactggagc agaggaaatc atgcaggaaa agtaaagaga aggacatcag gtaaagagaa   540
159 gaggacacat gcatagccag agagaaaaga ggagcagagg catgtggatc acagaagctt   600
161 agggaggaga ctttcaagaa ggggagagag gttgagtcaa gcaagggctg aaagccaacc   660
163 attggatgca gtcactagaa agttacagat aggcaaggtg ttgtggctca cgcctgtaat   720
165 cccaacacct tgtggggctg aggtgggagg atcgcttgag cccgggaggt cgaggctgca   780
167 atgagccctg atggcgccaa tgcactccag cctgggcgac agagcaagac cctgtcgcaa   840
169 aaattaataa ataaataaat aaaaagaaaa ggggaaaaa aagttatacg tggccttacg    900
171 gggaagccaa ctctgactgg ttataagctg aaactgtcaa gtcaacaggt ggcagggaag   960
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Output Set: N:\CRF4\12292006\J569330.raw

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173 atggctgaga ccaacagcac agagatttag aggcagacag acctggcgcc aatcctagga   1020
175 caggttttgg taagcctttg aatttcaatt gccccacgtt tcggggggagg gggtagcacc   1080
177 ccctagctca taaaccttag tgattgatga ttaaatgaga tgacggagga aaacgcaagg   1140
179 cacaaagtgg atgcattagc tccattttgt taatcagcag gcttagttgg ctgcgaccca   1200
181 gacacgaact aaaatacagt gcagcccagg accagtgggg gtcttgctta tggctcagag   1260
183 ctgaacaaca catgggcagc aaaatcagac actgagatgc gggcaggcct gcgacgctga   1320
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187 cagtctcggg tacacctggt tgtccctccc tgtcctggcg cggcaaacgt tcccggaggc   1440
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191 accagggcct aggcaacgca gctgtccgcc cctaacaacc actcacctgc tttccccttt   1560
193 ctataggcca gcaaaggtac attctttttc ttattgggcc gcgtaactta tcgcaaccaa   1620
195 tcagtggcag ccacgggacc caactcactc ccacacaact tgtgggggtg atcatggaga   1680
197 agacaaattt ttgtttttccg catccagttc tctcagagag caccgtattt gtcaaactgt   1740
199 tgtgactctc cctaaatgtt taagaaaaca tttcattccc ctcaggcttg tatagtctgt   1800
201 ccctggccta ctccccgctc caggtggtac agcccgcaag cggctcccct tcccagctgc   1860
203 tcgcggggcc gagtccccca gtccgaggag gccactcagc gcaggagcca taccatctgt   1920
205 gactaataaa taataggggg acctccgact ccccccctgtt gccttattac cttccgacca   1980
207 cctctcggac ctcttgccca gcccttcccc gtagacatca ccccagatac ggtggtgaca   2040
209 ccattgctat gggcccacgt agggcgcagt gcgagccagg gcaggacgca cttggtacga   2100
211 cccacgccgc gccccgcgcc gccggaagtg aggtgtctga cccccgaagt tccggttcgc   2160
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231 cctggagcag atttctgctg ttgcctccca ccccatcttc tccaccggag ggtcagcggt   2760
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237 tgcgtcagtg tgatcactta accccttcga gtctaatttg taaaatgggg tagcgtaagc   2940
239 tattctttgt ctgatgattt cgagggcgaa atgtgatttc cccccacctt tctcctatga   3000
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243 tcttgcccca tgcaggtctc cgggccaggg ca                                  3092
246 <210> SEQ ID NO: 3
247 <211> LENGTH: 19
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial
251 <220> FEATURE:
252 <223> OTHER INFORMATION: synthetic DNA
254 <400> SEQUENCE: 3
255 gcgccgccgt aagtgaggt                                                    19
258 <210> SEQ ID NO: 4
259 <211> LENGTH: 20
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial
263 <220> FEATURE:
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Input Set : A:\L7350.0006 SEQUENCE LISTING.TXT
Output Set: N:\CRF4\12292006\J569330.raw

264 <223> OTHER INFORMATION: synthetic DNA
266 <400> SEQUENCE: 4
267 aagtgagttg tcttacccccc                                          20
270 <210> SEQ ID NO: 5
271 <211> LENGTH: 20
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial
275 <220> FEATURE:
276 <223> OTHER INFORMATION: synthetic DNA
278 <400> SEQUENCE: 5
279 actccgccaa gccccgcgcc                                           20
282 <210> SEQ ID NO: 6
283 <211> LENGTH: 16
284 <212> TYPE: DNA
285 <213> ORGANISM: Artificial
287 <220> FEATURE:
288 <223> OTHER INFORMATION: synthetic DNA
290 <400> SEQUENCE: 6
291 gcgccgccgg aagtga                                               16
294 <210> SEQ ID NO: 7
295 <211> LENGTH: 16
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial
299 <220> FEATURE:
300 <223> OTHER INFORMATION: synthetic DNA
302 <400> SEQUENCE: 7
303 gcgccgccgt aagtga                                               16
306 <210> SEQ ID NO: 8
307 <211> LENGTH: 101
308 <212> TYPE: DNA
309 <213> ORGANISM: Homo sapiens
311 <400> SEQUENCE: 8
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314 caggggggtgg ggagtgttgt taaccggagg ggcagccgca g                     101
317 <210> SEQ ID NO: 9
318 <211> LENGTH: 101          _musculus_
319 <212> TYPE: DNA
320 <213> ORGANISM: Mus (musclus)
322 <400> SEQUENCE: 9
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325 caggggggtgg ggagtgttgt taaccggagc ggctgccgca g                     101
328 <210> SEQ ID NO: 10
329 <211> LENGTH: 11
330 <212> TYPE: DNA
331 <213> ORGANISM: Homo sapiens
333 <400> SEQUENCE: 10
334 gccggaagtg a                                                    11
337 <210> SEQ ID NO: 11
338 <211> LENGTH: 11

**RAW SEQUENCE LISTING**            DATE: 12/29/2006
PATENT APPLICATION:    US/10/569,330        TIME: 15:38:03

Input Set : **A:\L7350.0006 SEQUENCE LISTING.TXT**
Output Set: **N:\CRF4\12292006\J569330.raw**

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340 <213> ORGANISM: Artificial
342 <220> FEATURE:
343 <223> OTHER INFORMATION: mutant
345 <400> SEQUENCE: 11
346 gcctgaagtg a                                             11
349 <210> SEQ ID NO: 12
350 <211> LENGTH: 10
351 <212> TYPE: DNA
352 <213> ORGANISM: Homo sapiens
354 <400> SEQUENCE: 12
355 gccgcgcccc                                               10
358 <210> SEQ ID NO: 13
359 <211> LENGTH: 10
360 <212> TYPE: DNA
361 <213> ORGANISM: Artificial
363 <220> FEATURE:
364 <223> OTHER INFORMATION: mutant
366 <400> SEQUENCE: 13
367 gccaagcccc                                               10
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*insufficient explanation*
*( give source of genetic material )*
*see item 11 on Error Summary Sheet*

RAW SEQUENCE LISTING ERROR SUMMARY     DATE: 12/29/2006
PATENT APPLICATION:  US/10/569,330     TIME: 15:38:04

Input Set : **A:\L7350.0006 SEQUENCE LISTING.TXT**
Output Set: **N:\CRF4\12292006\J569330.raw**

**Invalid <213> Response:**
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,11,13

**VERIFICATION SUMMARY**                    DATE: 12/29/2006
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Input Set : A:\L7350.0006 SEQUENCE LISTING.TXT
Output Set: N:\CRF4\12292006\J569330.raw